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**LISTING OF THE CLAIMS**

This listing of claims will replace all other versions of claims in the application.

1. (Original): A data compression system, comprising:  
a scanning component which scans at least a portion of a transformed image, wherein the scan is performed substantially in a horizontal direction on a first section of the portion and in a vertical direction on a second section of the portion to enable improved data compression of the transformed image.
2. (Original): The data compression system of claim 1, wherein the horizontal and vertical scan directions are performed *via* a contiguous scan of the respective sections to enable improved data compression of the transformed image.
3. (Original): The data compression system of claim 1, further comprising a wavelet transform subsystem for transforming an image into wavelet coefficients *via* low pass and high pass filters applied to the image.
4. (Original): The data compression system of claim 3, further comprising a quantizer for reducing stored data associated with the wavelet coefficients.
5. (Original): The data compression system of claim 3, further comprising a reordering and blocking subsystem to provide a matrix of wavelet coefficients that are organized into at least one of low-low (LL), low-high (LH), high-low (HL), and high-high (HH) sub-bands.
6. (Original): The data compression system of claim 5, wherein the LH sub-bands are scanned in the vertical direction and the HL sub-bands are scanned in the horizontal direction.

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7. (Original): The data compression system of claim 5, wherein the LL and HH sub-bands are scanned in either the horizontal or the vertical direction.
8. (Original): The data compression system of claim 5, wherein run length encoding is employed to encode the scanned coefficients.
9. (Original): The data compression system of claim 8, wherein at least one of Golomb-Rice encoding and Arithmetic encoding is employed to encode the scanned coefficients.
10. (Original): A method for providing a data compression system, comprising:  
    scanning at least a portion of a transformed image in substantially a horizontal direction on a first section of the portion; and  
    scanning in a vertical direction on a second section of the portion of the transformed image to enable improved data compression of the transformed image.
11. (Original): The method of claim 10, wherein the horizontal and vertical scan directions are performed *via* a contiguous scan of the respective sections to enable improved data compression of the transformed image.
12. (Original): The method of claim 10, further comprising:  
    transforming an image into wavelet coefficients *via* low pass and high pass filters applied to the image.
13. (Original): The method of claim 12, further comprising:  
    reordering and blocking to provide a matrix of wavelet coefficients that are organized into at least one of low-low (LL), low-high (LH), high-low (HL), and high-high (HH) sub-bands.

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14. (Original): The method of claim 13, wherein the LH sub-bands are scanned in the vertical direction and the HL sub-bands are scanned in the horizontal direction.
15. (Original): The method of claim 13, wherein the LL and HH sub-bands are scanned in either the horizontal or the vertical direction.
16. (Original): A data compression system, comprising:  
means for scanning at least a portion of a transformed image in substantially a horizontal direction on a first section of the portion; and  
means for scanning in a vertical direction on a second section of the portion of the transformed image to enable improved data compression of the transformed image.
17. (Original): The data compression system of claim 16, wherein the horizontal and vertical scan directions are performed *via* a contiguous scan of the respective sections to enable improved data compression of the transformed image.
18. (Original): The data compression system of claim 16, further comprising:  
means for transforming an image into wavelet coefficients *via* low pass and high pass filters applied to the image.
19. (Original): The data compression system of claim 18, further comprising:  
means for reordering and blocking to provide a matrix of wavelet coefficients that are organized into at least one of low-low (LL), low-high (LH), high-low (HL), and high-high (HH) sub-bands.
20. (Original): The data compression system of claim 19, wherein the LH sub-bands are scanned in the vertical direction and the HL sub-bands are scanned in the horizontal direction.

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21. (Original): The data compression system of claim 19, wherein the LL and HH sub-bands are scanned in either the horizontal or the vertical direction.
22. (Original): An image compression system, comprising:
- a wavelet transform subsystem for transforming an image into wavelet coefficients; and
  - a scanning component which contiguously scans at least a portion of the transformed image, wherein the contiguous scan is performed substantially in a horizontal direction on a first section of the portion and in a vertical direction on a second section of the portion to enable improved data compression of the transformed image.